



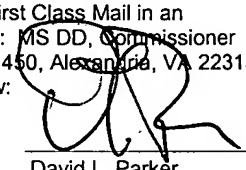
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April 7, 2004

CERTIFICATE OF MAILING 37 C.F.R 1.8	
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April 7, 2004	
Date	David L. Parker

MS DD
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Re: *U. S. Patent Application No. 10/672,763 "Ethylenedicysteine (Ec)-Drug Conjugates, Compositions and Methods For Tissue Specific Disease Imaging" – David Yang, et al.*
Our Ref. No. UTSC:664USC1
UT Ref No.: MDA99-040

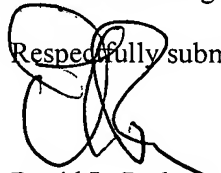
Sir:

Enclosed for filing in the above-referenced patent application is an Information Disclosure Statement and Form PTO-1449.

No fees are believed to be due in connection with the filing of this Information Disclosure Statement, however, should any fees under 37 C.F.R. §§ 1.16 to 1.21 be deemed necessary for any reason relating to the enclosed materials, the Commissioner is authorized to deduct the appropriate fees from Fulbright & Jaworski Deposit Account No.: 50-1212/UTSC:664USC1.

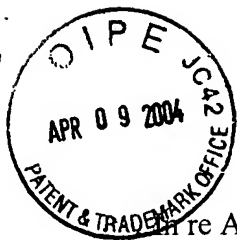
Please date stamp and return the enclosed postcard evidencing receipt of these materials.

Respectfully submitted,


David L. Parker
Reg. No. 32,165

DLP/kmv
Encl.: as noted

25356661.1



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Re Application of:
David Yang et al.

Serial No.: 10/672,763

Filed: September 26, 2003

For: ETHYLENEDICysteine (EC)-DRUG
CONJUGATES, COMPOSITIONS AND
METHODS FOR TISSUE SPECIFIC
DISEASE IMAGING

Group Art Unit: Unknown

Examiner: Unknown

Atty. Dkt. No.: UTSC:664USC1

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April 7, 2004

Date

David L. Parker

INFORMATION DISCLOSURE STATEMENT

MS DD

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Sir:

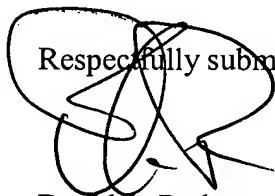
In compliance with the duty of disclosure under 37 C.F.R. § 1.56, it is respectfully requested that this Information Disclosure Statement be entered and the documents listed on attached Form PTO-1449 be considered by the Examiner and made of record.

In accordance with 37 C.F.R §§ 1.97(g), (h), this Information Disclosure Statement is not to be construed as a representation that a search has been made, and is not to be construed to be an admission that the information cited is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

The present Information Disclosure Statement is being filed prior to the receipt of a first Official Action reflecting an examination on the merits, and hence is believed to be timely filed in accordance with 37 C.F.R. § 1.97(b). No fees are believed to be due in connection with the filing of this Information Disclosure Statement, however, should any fees under 37 C.F.R. §§ 1.16 to 1.21 be deemed necessary for any reason relating to these materials, the Commissioner is authorized to deduct the appropriate fees from Fulbright & Jaworski Deposit Account No.: 50-1212/UTSC:664USC1.

This application is a continuation application of Serial No. 09/599,152, filed June 21, 2000 and is relied upon for an earlier filing date under 35 U.S.C. § 120. In accordance with Rule 37 C.F.R. § 1.98(d) copies of the listed documents are not enclosed as they have been previously cited by or submitted to the Patent and Trademark Office in prior application Serial No. 09/599,152.

Applicants respectfully request that the listed documents be made of record in the present case.

Respectfully submitted,

David L. Parker
Reg. No. 32,165
Attorney for Applicants

FULBRIGHT & JAWORSKI L.L.P.
600 Congress Avenue, Suite 2400
Austin, Texas 78701
(512) 474-5201

Date: April 7, 2004

Form PTO-1449 (modified)

Atty. Docket No.

UTSC:664USC1

Serial No.

10/672,763

List of Patents and Publications for Applicant's

Applicants

David Yang *et al.*

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Filing Date:

September 26, 2003

Group:

Unknown

U.S. Patent Documents

See Page 1

Foreign Patent Documents

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Other Art

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U.S. Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date of App.
	A1	2001/0041189	11/15/01	Xu	424	488	4/13/99
	A2	2001/0034363	10/25/01	Li <i>et al.</i>	514	449	3/30/98
	A3	4,418,068	11/29/83	Jones	424	267	12/16/81
	A4	4,507,466	3/26/85	Tomalia <i>et al.</i>	528	332	1/07/83
	A5	4,558,120	12/10/85	Tomalia <i>et al.</i>	528	363	12/27/83
	A6	4,568,737	2/04/86	Tomalia <i>et al.</i>	528	332	8/17/84
	A7	4,587,329	5/06/86	Tomalia <i>et al.</i>	528	363	7/19/85
	A8	4,631,337	12/23/86	Tomalia <i>et al.</i>	528	391	7/11/85
	A9	4,694,064	9/15/87	Tomalia <i>et al.</i>	528	332	2/28/86
	A10	4,713,975	12/22/87	Tomalia <i>et al.</i>	73	864.8	5/30/86
	A11	4,732,863	3/22/88	Tomasi <i>et al.</i>	436	547	12/31/84
	A12	4,737,550	4/12/88	Tomalia	525	419	12/08/86
	A13	4,857,599	8/15/89	Tomalia <i>et al.</i>	525	259	2/08/88
	A14	4,871,779	10/03/89	Killat <i>et al.</i>	521	28	12/23/85
	A15	4,988,496	01/29/91	Srinivasan <i>et al.</i>	424	1.1	05/31/88
	A16	5,087,616	2/11/92	Myers <i>et al.</i>	514	21	8/06/87
	A17	5,108,921	04/28/92	Low <i>et al.</i>	435	240.1	03/28/90
	A18	5,164,294	11/17/92	Skold <i>et al.</i>	435	7.5	7/07/89
	A19	5,279,811	1/18/94	Bergstein <i>et al.</i>	424	1.65	1/26/88
	A20	5,412,072	5/02/95	Sakurai <i>et al.</i>	530	322	3/21/90
	A21	5,416,016	05/16/95	Low <i>et al.</i>	435	240.1	03/13/92
	A22	5,517,993	5/21/96	Unger and Wu	128	653.4	6/07/95
	A23	5,534,241	7/09/96	Torchilin <i>et al.</i>	424	9.321	7/23/93

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INFORMATION DISCLOSURE STATEMENT — PTO-1449 (MODIFIED)



Form PTO-1449 (modified)		Atty. Docket No. UTSC:664USC1	Serial No. 10/672,763
List of Patents and Publications for Applicant's INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		Applicants David Yang <i>et al.</i>	
		Filing Date: September 26, 2003	Group: Unknown
U.S. Patent Documents <i>See Page 1</i>	Foreign Patent Documents <i>See Page 1</i>	Other Art <i>See Page 1</i>	

U.S. Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date of App.
	A24	5,605,671	2/25/97	Lyle <i>et al.</i>	424	1.41	4/29/94
	A25	5,635,382	06/03/97	Low <i>et al.</i>	435	172.3	12/05/94
	A26	5,635,603	6/03/97	Hansen <i>et al.</i>	530	391.5	12/05/94
	A27	5,670,132	9/23/97	Griffiths <i>et al.</i>	424	1.11	9/20/94
	A28	5,688,488	11/18/97	Low <i>et al.</i>	424	1.69	05/16/95
	A29	5,730,968	3/24/98	Butterfield <i>et al.</i>	424	78.37	3/31/94
	A30	5,820,847	10/13/98	Low <i>et al.</i>	424	9.1	01/15/97
	A31	5,830,431	11/03/98	Srinivasan <i>et al.</i>	424	1.69	6/07/95
	A32	5,908,777	6/01/99	Lee <i>et al.</i>	435	320.1	3/23/95
	A33	5,951,964	9/14/99	Dean <i>et al.</i>	424	1.69	6/4/93
	A34	5,955,053	9/21/99	Marzilli <i>et al.</i>	424	1.11	5/6/96
	A35	5,977,163	11/2/99	Li <i>et al.</i>	514	449	3/11/97
	A36	5,986,074	11/16/99	Marzilli <i>et al.</i>	534	14	12/18/97
	A37	6,071,533	6/06/00	Papahadjopoulos <i>et al.</i>	424	450	11/17/95
	A38	6,083,741	7/04/00	Hart <i>et al.</i>	435	320.1	11/17/95
	A39	6,113,946	9/05/00	Szoka, Jr. <i>et al.</i>	424	486	6/06/95
	A40	6,197,278	3/6/01	Blankenberg <i>et al.</i>	424	1.69	4/29/98
	A41	6,251,866	6/26/01	Prakash <i>et al.</i>	514	17	8/04/98
	A42	6,262,107	7/17/01	Li <i>et al.</i>	514	449	7/01/99

Foreign Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
	B1	WO 95/28966	11/02/95	PCT			

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Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
	B2	WO 97/33552	9/18/97	PCT			
	B3	WO 99/39748	8/12/99	PCT			
	B4	WO 99/49901	10/07/99	PCT			
	B5	WO 99/61512	12/02/99	PCT			
	B6	WO 00/53233	9/14/00	PCT			
	B7	WO 00/61788	10/19/00	PCT			

Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
	C1	Abrams <i>et al.</i> , "Technetium-99m-human polyclonal IgG radiolabeled via the hydrazino nicotinamide derivative for imaging focal sites of infection in rats," <i>J. Nucl. Med.</i> , 31:2022-2028, 1990.
	C2	Alper <i>et al.</i> , "Assessment of renal functional changes following transurethral prostatectomy using tc-99m ethylenedicysteine," <i>J. Nuclear Med.</i> , 37:289P, Abstract No. 1292, 1996.
	C3	Anderson <i>et al.</i> , "N,N'-ethylene-di-l-cysteine (ec) complexes of ga(III) and In (III): molecular modeling, thermodynamic stability and in vivo studies," <i>Nucl. Med. Biol.</i> , 22:165-173, 1995.
	C4	Anderson <i>et al.</i> , "Radiometal-labeled agents (non-technetium) for diagnostic imaging," <i>Chem. Rev.</i> , 99:2219-2234, 1999.
	C5	Antony, "Folate receptors," <i>Ann. Rev.</i> , 16:501-521, 1996.
	C6	Aoi <i>et al.</i> , "Globular carbohydrate macromolecule 'sugar balls' 3. 'radical-growth polymerization' of sugar-substituted α -amino acid N-carboxyanhydrides (glycoNCAs) with a dendritic initiator," <i>Tetrahedron, Elsevier Science Publishers</i> , 53(45):15415-15427, 1997.
	C7	Baidoo and Lever, "Evaluation of a diaminedithiol-based bifunctional chelate for labeling small molecules with ^{99m}Tc ," <i>Technetium and Rhenium in Chemistry and Nuclear Medicine</i> , 1990.
	C8	Baidoo <i>et al.</i> , "Synthesis of a new diaminedithiol bifunctional chelate for the preparation of neutral technetium complexes," <i>J. Nuclear Med.</i> , 31:806, Abstract No. 414, 1990.

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Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
	C9	Bajorin <i>et al.</i> , <i>Proc. Annu. Meet. Am. Soc. Clin. Oncol.</i> , 7:250, A967, 1988.
	C10	Bakker <i>et al.</i> , "Receptor scintigraphy with a radioiodinated somatostatin analogue: radiolabeling, purification, biologic activity and in vivo application in animals," <i>J. Nucl. Med.</i> , 31:1501-1509, 1990.
	C11	Bar-Sever <i>et al.</i> , "Comparison of living related donor and recipient renograms in predicting the early postransplantation course," <i>J. Nuclear Med.</i> , 37:292P, Abstract No. 1305, 1996.
	C12	Baselga <i>et al.</i> , "Phase I studies of anti-epidermal growth factor receptor cheimeric antibody C225 alone and in combination with cisplatin," <i>J. Clinical Oncology</i> , 18(4):904-914, 2000..
	C13	Baselga <i>et al.</i> , "Recombinant humanized anti-HER2 antibody (herceptin) enhances the antitumor activity of paciltazel and doxorubicin against HER2/new overexpressing human breast cancer xenografts," <i>Cancer Research</i> , 58:2825-2831, 1998.
	C14	Becker <i>et al.</i> , "Analysis of E-cadherin in diffuse-type gastric cancer using a mutation-specific monoclonal antibody," <i>American Journal of Pathology</i> , 155(6):1803-1809.
	C15	Benns <i>et al.</i> , "Tailoring new gene delivery designs for specific targets," <i>Journal of Drug Targeting</i> , 8(1), Database Medline on STN International, Accession No. 2000222278, 2 pages, 2000.
	C16	Blackenberg <i>et al.</i> , "Apoptosis: the importance of nuclear medicine," <i>Nucl. Med. Comm.</i> , 21:241-250, 2000..
	C17	Blackenberg <i>et al.</i> , "In vivo detection and imaging of phosphatidylserine expression during programmed cell death," <i>Proc. Natl. Acad. Sci., USA</i> , 95:6349-6354, 1998.
	C18	Blair <i>et al.</i> , "Linkage of cytotoxin agents to immunoglobulins," <i>Journal of Immunological Methods</i> , 59:129-143, 1983..
	C19	Blakenberg <i>et al.</i> , "Imaging of apoptosis (programmed cell death) with ^{99m} Tc annexin V.," <i>J. Nucl. Med.</i> , 40:184-191, 1999.
	C20	Block, "Poly(g-benzyl-L-glutamate) and other glutamic acid containing polymers," Gordon and Breach Science Publishers, New York, 11-31, 1983.
	C21	Blondeau <i>et al.</i> , "Dimerization of an intermediate during the sodium in liquid ammonia reduction of L-thiazolidine-4-carboxylic acid," <i>Can J. Chem.</i> , 45:49-52, 1967.

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List of Patents and Publications for Applicant's INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		Applicants David Yang <i>et al.</i>	
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U.S. Patent Documents <i>See Page 1</i>	Foreign Patent Documents <i>See Page 1</i>	Other Art <i>See Page 1</i>	

Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
	C22	Bohdiewicz <i>et al.</i> , "Indium-111 satumomab pendetide: the first FDA-approved monoclonal antibody for tumor imaging," <i>J. Nuclear Medicine Technology</i> , 26(3):155-163, 1998.
	C23	Brechbiel <i>et al.</i> , "Synthesis of 1 (P-isothiocyanatobenzyl) derivatives of DTPA and EDTA: antibody labeling and tumor-imaging studies," <i>Inorg. Chem.</i> , 25:2772-2781, 1986.
	C24	Brogi <i>et al.</i> , "Hypoxia-induced paracrine regulation of vascular endothelial growth factor receptor expression," <i>J. Clin. Invest.</i> , 97(2):469-476, 1996.
	C25	Brokx <i>et al.</i> , "Designing peptide-based scaffolds as drug delivery vehicles," <i>Science</i> , 78(1-3):115-123, 2002.
	C26	Budihardjo <i>et al.</i> , "Biochemical pathways of caspase activation during apoptosis," <i>Annu. Rev. Cell Dev. Biol.</i> , 15:269-290, 1999.
	C27	Burgen, "Targets of drug action," <i>Ann. Rev. Pharmacol. Toxicol.</i> , 40:1-16, 2000.
	C28	Bush <i>et al.</i> , "Definitive evidence for hypoxic cells influencing cure in cancer therapy," <i>Br J Cancer</i> , (Suppl. III) 37:302-306, 1978.
	C29	Campbell <i>et al.</i> , "Folate-binding protein is a marker for ovarian cancer," <i>Cancer Res</i> , 51:5329-5338, 1991.
	C30	Chapman <i>et al.</i> , "Therapeutic antibody fragments with prolonged in vivo half-lives," <i>Nature Biotech.</i> , 17:780-783, 1999.
	C31	Chen <i>et al.</i> , "Biological and pharmacokinetic evaluation of tc-99m ma2g2-b: a potential renal agent," <i>J. Nuclear Med.</i> , 35:263P, Abstract No. 1082, 1994.
	C32	Cherif <i>et al.</i> , "Rapid synthesis of [¹⁸ F]Fluoro-1-(2'-Nitro-1'-Imidazolyl)-2-Propanol ([¹⁸ F]Fluoromisonidazole)," <i>Pharm Res.</i> , 11:466-469, 1994.
	C33	Cleynhens <i>et al.</i> , "Synthesis and biological evaluation in mice of a monoamide derivative of tc-99m-l,l-ec," <i>J. Nuclear Med.</i> , 38:186P, Abstract No. 799, 1997.
	C34	Collier <i>et al.</i> , "Immunoscintigraphy performed with In-111-labeled CYT-103 in the management of colorectal cancer: comparison with CT," <i>Radiology</i> , 185:179-186, 1992.
	C35	Coney <i>et al.</i> , "Chimeric murine-human antibodies directed against folate binding receptor are efficient mediators of ovarian carcinoma cell killing," <i>Cancer Res</i> , 54:2448-2455, 1994.

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Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
	C36	Corlija <i>et al.</i> , "Contribution of radiolytically induced dissociation of 99mtc-d,1-hmpao in aqueous solutions," <i>J. Nuclear Med.</i> , 31:806, Abstract No. 413, 1990.
	C37	Craig <i>et al.</i> , "Renal outcomes for children on year after urinary tract infection," <i>J. Nuclear Med.</i> , 37:46P, Abstract No. 175, 1996.
	C38	Culver <i>et al.</i> , "In vivo gene transfer with retroviral vector-producer cells for treatment of experimental brain tumors," <i>Science</i> , 256:1550-1552, 1992.
	C39	Dagli <i>et al.</i> , "Analysis of the complete dynamic scan data for camera-based determination of renal function," <i>J. Nuclear Med.</i> , 37:91P, Abstract No. 354, 1996.
	C40	Davison <i>et al.</i> , "A new class of oxotechnetium(5+) chelate complexes containing a TcON ₂ S ₂ Core," <i>Inorg Chem</i> , 20:1629-1632, 1981.
	C41	de Klerk <i>et al.</i> , "Aspirin versus captopril renography in the diagnosis of renal artery stenosis," <i>J. Nuclear Med.</i> , 37:289P, Abstract No. 1291, 1996.
	C42	Deguchi <i>et al.</i> , "Retention of biologic activity of human epidermal growth factor following conjugation to a blood-brain barrier drug delivery vector via an extended poly(ethylene glycol) linker," <i>Bioconjugate Chem.</i> , 10:32-37, 1999.
	C43	DeNardo <i>et al.</i> , "Pharmacokinetics of chimeric L6 conjugated to indium 111- and yttrium-90-DOTA-peptide in tumor-bearing mice," <i>J. Nuclear Medicine</i> , 36:829-836, 1995.
	C44	DeNardo <i>et al.</i> , "Yttrium-90/indium-111-DOTA-peptide-chimeric L6: Pharmacokinetics, dosimetry and initial results in patients with incurable breast cancer," <i>Anticancer Research</i> , 17(3B):1735-1744, 1997.
	C45	Deutsch <i>et al.</i> , "Synthesis of congeners and prodrugs, water-soluble prodrugs of taxol with potent antitumor activity," <i>J. Med. Chem.</i> , 32:788-792, 1989.
	C46	Dewanjee <i>et al.</i> , "Labeling antisense oligodeoxynucleotide (on) with tc-99m and hybridization with c-myc oncogene mrna in p388 leukemic cells," <i>J. Nuclear Med.</i> , 35:263P, Abstract No. 1081, 1994.
	C47	Dezutter <i>et al.</i> , "Preparation and biological evaluation of technetium- ^{99m} -L,L-propylenedicysteine" <i>J. of Labelled Cpd. Radiopharm.</i> , 42:553-565, 1999.
	C48	Dische, "A review of hypoxic-cell radiosensitization," <i>Int J Radiat Oncol Biol Phys</i> , 20:147-152, 1991.

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Form PTO-1449 (modified)		Atty. Docket No. UTSC:664USC1	Serial No. 10/672,763
List of Patents and Publications for Applicant's INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		Applicants David Yang <i>et al.</i>	
		Filing Date: September 26, 2003	Group: Unknown
U.S. Patent Documents <i>See Page 1</i>	Foreign Patent Documents <i>See Page 1</i>	Other Art <i>See Page 1</i>	

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